

McGill Daily

Vol. 3, No. 85.

Montreal, Thursday, January 29, 1914.

Price Five Cents.



Campbell's Clothing

BIG CLEAN UP SALE

WHAT
DOES IT
MEAN?

It means that you are given an opportunity to purchase a suit or overcoat of reliable workmanship and material at a saving of \$5.00 to \$8.00, and in some cases more. We fit every garment to your satisfaction. There are some very special snags in suits we would like to show you.

Wm. McLAUGHLIN, Regd.
21 McGill College Avenue.

CAMPBELL'S QUALITY CLOTHING

STUDENTS:

Our stock of Standard Books is being disposed of at Bargain Prices for a few weeks' more:

World's Best Histories, 30c per vol.
Standard Authors in sets, 30c per vol.

Panama and the Canal in 1 vol., illustrated. Published at \$4.00. Our Price, \$2.00.

Dictionaries and Cyclopaedias, 50c each.

Other choice works in De Luxe Editions at correspondingly low prices.

Dominion Book & Art Co.
235 ST. JAMES STREET.
W. A. MCGILL, Manager.

Fairweather's
LIMITED

IMPORTED WAISTS and BLOUSES

R. V. C. Students, when reading this waist offer remember that they all represent "Fairweather's" quality.

Fancy Imported Waists.

\$7.50 to \$12.50 for	\$3.75
\$9.00 to \$15.00 for	\$5.00
\$17.50 to \$25.00 for	\$7.50

Linen Tailored Waists.

\$3.50 to \$7.50 for	\$1.75
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Fur Sets.

ONE THIRD and a HALF OFF all Fancy Fur Sets and Single Pieces.

ST. CATHERINE ST. WEST, at PEEL STREET.

MONTREAL.

WINNIPEG

SLEEPING HABITS OF ANIMALS.

Most people sleep on their sides, with the knees drawn up.

Elephants always and horses commonly sleep standing up.

Bats sleep head downward, hanging by their hind legs.

Birds, with the exception of owls and the hanging parrots of India, sleep with their heads turned tailward over the back and the beak thrust among the feathers between the wing and body.

Storks, gulls and other long-legged birds, sleep standing on one leg.

Ducks sleep on open water. To avoid drifting shoreward, they keep

paddling with one foot, thus making them move in a circle.

Sloths sleep hanging by their four feet, the head tucked in between their fore legs.

Foxes and wolves sleep curled up, their noses and the soles of their feet close together and blanketed by their bushy tails.

Hares, snakes, and fish sleep with their eyes wide open.

Owls, in addition to their eyelids, have a screen that they draw sideways across their eyes to shut out the light, for they sleep in the daytime.—New York "World."

METHODS OF BRIDGE B'L'DG

Talked of by Mr. J. K. Harrington

SCI. UNDERGRAD

Over Million and Half Cost of One Bridge

Bridges of all sizes, from some his company had thrown over "mud rivers" in Louisiana, to the huge structure which now spans the Willamette, opposite Portland, Oregon, were talked of by Mr. J. L. Harrington, of the famous firm of Waddell and Harrington, at the Science Undergraduate meeting last evening. An hour and a half-quarters, such little very white as he spoke. Especially attraction was added to his remarks by splendid lantern views of bridges he had built, and there was interest, too, in the fact that he himself holds a B. Sc. degree from McGill.

Mr. Harrington's address went to prove the advantages of the "lift" over the "swing" bridge. In many cases they represented an economy of up to one-half and one-third over the older type of bridges, "And," as he explained to his hearers, "it is really all a matter of dollars and cents, after you take care of the safety factor."

The lecture was a series of comments on the various types of spans, the views of which were thrown on the screen. For example, an interesting picture of an Arkansas bridge was shown.

The bridge was built at a point where the channel in the Arkansas shifts perpetually. So the firm of Waddell and Harrington made the bridges all light, and when the channel turns from running under the span which lifts, and of course the navigation on the river shifts, too, the span chosen by the current can also be picked up, and used as a lifting span.

In all the pictures shown, uprights at the end of the stationary spans, with pulleys or drums at the top, through which ran the cables, pulled up the lifting spans. In a typical bridge over a little river in Louisiana, the uprights were connected by steel work, and cables from the upper framework lifted the span. In this case the lift was operated by a gasoline engine, and one man was all that was needed to perform the necessary operations. Two of the ropes wound, and two unwound, as the drums were turned. They either lifted or let down the span, according to how the engine itself was run, but to how the universal gear was arranged.

Some especially "fool proof" bridges were shown. When the span being lifted or restored to its normal position, is at the end of its journey, the spark is cut off, and it stops moving. "It's very simple," said Mr. Harrington, "and engineers have been wondering why it was not invented long ago."

He related an experience with a Southern California contractor. This man came to him and inquired the comparative costs of lift and swing bridges, and was informed that the former would cost \$620,000, but a week later \$75,000. Of course the lift was used. Later, when Mr. Harrington came to look at the bids put in for this bridge, he found that the lowest was \$185,000. The contractors had pooled three times. "Yet, on the other hand," remarked the bridge builder, "it is unfair to ask each contractor to put in a bid. It means 15 or so different plans for each structure."

Mr. Harrington showed views of one of four bridges that have been placed as close together as they can be, built for railways running into Chicago. The span is about 210 feet from centre to

Continued on page 4.

LAW SOCIETY DINNER TO BE HELD ON SAT.

Sir Horace Archambault Will Be Guest of Honor

The annual dinner of the Law Undergraduate Society is to be held on Saturday night, at the Ritz Carlton Hotel.

The guest of honour on this occasion will be Sir Horace Archambault, Chief Justice of the Court of King's Bench in the Province of Quebec. It is expected that the Honourable C. J. Doherty, Minister of Justice, will also be present.

Dr. Porter last evening presented the matter before the Science Undergraduates' Society. Since Dr. McKenzie was a distinguished graduate of McGill, as well as the best known athlete in the world, and by some authority without limitation the best sculptor in the country, he thought it extremely fitting that the University should take a part in presenting part of the collection to the Art Gallery.

Class meetings will be held in the various faculties this morning or this afternoon. Contributions, great or small, will be welcomed by the officers of the respective classes, who have the matter of collection in hand.

Those who have not seen the "Onslaught" will be advised to visit the library, where it is at present on exhibition. It was stated at the meeting that it is being sent back to New York on Saturday of this week.

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AMUSEMENTS

His Majesty's Theatre

Mats. 2.15. Eves. 8.15.

ALL WEEK, with MAT. SATURDAY
THE HENRY B. HARRIS ESTATE
Presents

Rose Stahl

IN HER GREAT COMEDY SUCCESS,

Maggie Pepper

BY CHARLES KLEIN.

Prices: Eves. 25c. to \$2.00; Mats. 25c.
to \$1.50.

NEXT WEEK

TOM TERRISS

IN REPERTOIRE

OF CHARLES DICKENS PLAYS.

PRINCESS EVENINGS 8.15.
MATINEE 2.15.

DeWOLF HOPPER

with the
GILBERT & SULLIVAN
FESTIVAL COMPANYBy kind permission of Rupert D'Oyley
Carre.To-day, To-morrow and Sat. Mat.
THE PIRATE. Sat. Evening.

THE PIRATES OF PENZANCE.

Prices: Eves. and Sat. Mat., 50c. to
\$2.00. Wed. Mat. 50c. to \$1.50.

Next Week — MAY ROBSON.

HIGH CLASS VAUDEVILLE
CPHEUM

2.10 PM. TO-DAY 8.10 PM.

*Fatima *Trovato Sam Mann & Co.
Ed. F. Reynard 7 Famous Stars
Carson and Brown Edgar Berger

Feature Concert every Sunday, con-

tinuous from 1.30 p.m.—Ten Cents.

GAYETY Burlesque

Afternoon, 1.30 to 2.45
Prices Evening, 2.45 to 3.45

"THE SOCIAL MAIDS"

A Two Dollar Revue at Popular Prices

NEW SHOW. MON. WED. FRID. SUN

IMPERIAL

2000 SEATS AT 10 CENTS

TODAY

THE HEART OF WOMEN

ENGLISH GAZETTE

and Others.

HELEN AND JUSTIN

Singing Pianist.

INTERSCOTTED Violin Soloist.

NEW GRAND

TO-DAY

Miller's Sisters

World's Greatest Juvenile Musicians

"A Race With Death."

Auto Suggestion

2—Two Reel Specials—2

And a Host of Other Good Photo Plays

THE STRAND

St. Catherine, Cor. Mansfield.

TO-DAY

A DOCTOR'S DECEIT

(In Two Parts.)

JUST KIDS

(In Two Parts.)

WILLIE ECKSTEIN — Pianist.

The same month saw the letter of

"Buts" written, also saw the com-

mencement of the notorious affair

with Hirsch, the Jewish money-lender

in Berlin, an affair which reflects lit-

tle credit on either Frederic or Vol-

taire. An affair which neither of them

ever forgot. Voltaire plotted with

Hirsch to do a little illegal stock job

in the part of the king, and arranged a

lawsuit ensued which resulted in many

sordid facts being brought to light

which disgusted Frederic and shamed

Voltaire. The two quarrelled and were

separated for some time, finally, how-

ever, the wound healed over, the

scar always remained.

A few months later some one report-

ed to Voltaire that Frederic had said

of him "one squeezes the orange and

throws away the rind." At first Vol-

taire refused to credit the information

then he remembered how Frederic

had used him, and he doubted, he re-

membered the Silesian affair and he

believed.

Maupertuis, the president of the

Berlin Academy, and a friend of Fre-

deric, was the cause of the final quarrel.

Frederic conferred some

slight distinction on his president and

Voltaire envied it. Maupertuis became

inflated over his honor and Voltaire

was angry; Maupertuis ventured to

criticise Voltaire's new play and Vol-

taire hated. He had no sceptre, but he

had a pen!

Maupertuis shortly after this pub-

lished some papers making extra-

ordinary statements and advocating the

maddest scientific schemes. Voltaire

exulted, here was an opening, here

was his chance for revenge.

His famous Diatribe of Dr. Akakia

is one of the most scathing, searing,

satires in any language. He showed it

to Frederic, who laughed heartily,

he asked him to teach it to his son,

but Frederic said "No". But Voltaire

had no intention of letting Maupertuis off this

easily. If he could not publish his

Diatribe openly he could do so secretly,

and the president of the Academy

was made the laughing stock of Euro-

pean.

Frederic was furious, and ordered

the book to be burned by the hang-

man, but too late. In his rage, he had

Voltaire imprisoned in his room, his

order and his key of office were ta-

ken away and he was ordered to leave

the country.

After a few days, however, the

King's rage simmered down and the

order and key were returned, but it

was inevitable that the two should

part. Early one morning Voltaire left

the capital in a chaise and proceeded

slowly towards Frankfurt.

Among his possessions was a poem

written by Frederic and presented to

(Continued on Page 3.)

To Clear

Until Further Notice

BUSINESS SUITS

including Odd Blues and Blacks, \$15.00
Values up to \$25.00

BUSINESS SUITS

including Odd Blues and Blacks, \$22.00
Values up to \$35.00

OVERCOATS

Odds and Ends, Values up to \$15.00
\$25.00

REGULAR OVERCOATS

DRESS SUITS
MORNING COATS AND VESTS
FROCK COATS AND VESTS

Every article fitted. Forty-eight hours required for delivery.

"Fashion-Craft"
Shops229 ST. JAMES STREET.
463 ST. CATHERINE STREET WEST.
469 ST. CATHERINE STREET EAST.Dress Suits or Frocks
Rented"My Specialty" of Frocks,
Dress Suits, Tuxedos, Black
Overcoats for Balls, Ban-
quets, Etc.

Prompt deliveries.

Reasonable charges.

M. A. BRODEUR,
13 NOTRE DAME EAST.Do Not Forget Your
BarbersDORÉ
BROS.
331 Bleury Street
Near St. Catherine
... AND ...
Corner Peel and S. Catherine
Under Union Bank.Sutherland
Shoe HospitalRepairs while you
wait. Prices Rea-
sonable.389A Bleury Street
Up. 3250.

GOULDEN'S PHARMACY

WE SEND FOR
AND DELIVER
PRESCRIPTIONS
PROMPTLY.
UP. 949471 Bleury St.
(Near Sherbrooke).

LORD STRATHCONA

Pause, loyal sons of Canada,
And bow the head.
The nation's High Commissioner
To-day lies dead.Let flags half-mast be hung
And tolling bells be rung.
In public and in Parliament
His worth be said.

A great and noble soul has passed

Life's boundless sum, has set at last
In scenes sublime.In living deeds his name
Stands on the scroll of fame—For him no need of monument
Of fleeting rhyme.

Then, loyal sons of Canada,

Your homage pay.

The nation's High Commissioner
Dies dead to day.

Your solemn requieas sing

And grateful tributes bring,

And on his bier the fairest flowers

Of memory lay.

—D. RAND PIERCE.

The Royal Military College of Canada

THERE are few national institutions
of more value and interest to the
country than the Royal Military College of
Canada. Notwithstanding this, its
object and the work it is accomplishing
are not sufficiently understood by the
general public.The College is a Government institution,
designed primarily for the purpose
of giving instruction in all branches of
military science, and for the officers of
the Canadian Militia. In fact, it cor-responds with the Royal Military College
of Woolwich, Sandhurst, and the Royal
Military College of Duntreath.

The Commandant and military in-

structors are all officers on the active
list of the Imperial army, lent for the
purpose, and their services in addition
to those of the professors for the civil
subjects which form such an important
part of the College course. Medical at-

tendance is also provided.

Whilst the College is organized on a
strictly military basis, the cadets receive
a general and scientific training in
subjects essential to a sound modern
education.The course includes a thorough
grounding in Mathematics, Civil Engi-neering, Surveying, Physics, Chemistry,
French and English.The strict discipline maintained at the
College is one of the most valuable fea-tures of the course, and in addition, the
constant practice of gymnastics, drills
and outdoor exercises of all kinds, en-

sures health and excellent physical con-

dition.

Commissions in all branches of the
Imperial service and Canadian Perma-

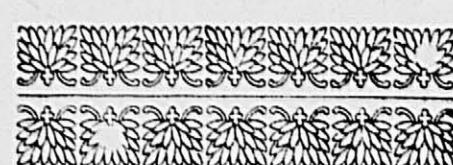
nent Force are offered annually.

The diploma of graduation is consider-

ed by the authorities conducting the
examination for Dominion Land Sur-veyor to be equivalent to a university
degree, and by the Recruitments of the
Law Society of Ontario, it obtains the
same exemptions as a B.A. degree.The length of the course is three years,
in three terms of 9½ months each.

The total cost of the course, includ-

ing tuition, room, board, books and
material, and all extras, is about \$800.</



E. A. LESLIE. F. G. HUGHES. W. H. BIGGAR.

NOTICE SENIORS.

A practice of some sort for McGill's senior hockey team will be held this afternoon. A notice with full particulars will be posted in the Union after 12 noon. All seniors are notified to look up this matter. An exhibition game will probably be slated.

"SHORTY" MANN.



Who played best for McGill at Toronto

Vibrations on Loaded and Unloaded Strings

Prof. J. A. Fleming Before Physical Society at London—Beam of Light Thrown Along a String.

London—The ninth annual exhibition of the Physical Society was held recently at South Kensington. Several excellent demonstrations were given in addition to the two lectures which are always a feature of the exhibition. Professor J. A. Fleming's demonstration of "The Production of Vibrations on Loaded and Unloaded Strings," was especially interesting.

A beam of light is thrown along the string, the vibrations of the cord when single, of several thicknesses or loaded with beads, can be studied, and since the experiments illustrate some problems connected with electric cables loaded with inductance coils, practical information can be obtained from them. Louis Brennan, C.B., spoke on "The Iridescence and Some Experiments on Soap Films," and by means of these soap films wonderful color effects were obtained.

C. C. Paterson and D. P. Dudding, of the National Physical Laboratory gave a demonstration of a proposed method for lessening the dazzle of motor car headlights by screens arranged to prevent the light shining above the horizontal on the right hand side of the car. Thus an approaching motor car is illuminated, but the head of the driver is in shadow. Several other demonstrations were given, including one by Dr. W. Watson, F.R.S., of his apparatus for examining the burning explosive mixture in the cylinders of an internal combustion engine by means of the spectrograph.

There were a great number of exhibits, among which may be mentioned the Lipograph, a copy of those made by the Royal Aircraft Factory, shown by the Cambridge Scientific Instrument Company; and the Marconi direction finder. Colonel Squier, military attache to the American embassy in London, exhibited his "Wired-wireless" field apparatus, the principle of which consists, briefly, in employing high frequency currents for telephoning purposes on wires.

One great advantage claimed for this method is that since the frequencies are beyond those which the ear can detect, existing telephone wires can be used and messages can be sent over them in Morse, while the ordinary telephoning is in no way interfered with. In addition to this the power required is extremely small compared with wireless telegraphy and in the equipment shown only three dry cells were used and the generator was simply a small buzzer. This system has already been tried successfully over distances of about 30 miles.

FOILING CHRIS.

Columbus had returned to Spain bringing news of wonderful new lands across the sea.

"How much shall I write on it?" queried the maritime reporter of the Cadiz Evening Bulletin, who had brought in the story. "Don't you think it's getting?" replied the editor. "Let Columbus pay for his advertising if he wants any. It's probably a real estate promotion scheme."—Newark News.

MARKED IMPROVEMENT IN FORM SHOWN BY SENIORS AT YESTERDAY'S PRACTICE

Fourteen Men Gave a Good Account of Themselves at the Arena—Preparations for the Harvard Game

HUGHES, RANKIN AND DAVIDSON THE ABSENTEES

Parsons, Ryley, Hooper and De Muth Made a Lot of Combination Rushes—Team Is Coming Together With Their Plays

WALLACE RANKIN



The big, hard-working McGill player.

INFLUENCE OF McKIM IN AM. ARCHITECTURE

E founded endowment in Harvard for a travelling student—Many of Harvard's buildings from his plans.

That his works praise him in the galleries, and in the windows and walls as well, may be said of Charles Follen McKim, who seems to have won and held the admiration of those who knew him as a man; for he was in art or architecture's sake, not for his own. He avoided publicity and praise and sought it not. It was said he was too busy building houses for other people to make one for himself; he was never too busy to give encouragement and right help to young men in his profession.

His predecessor in American architecture was H. H. Richardson, whose rich and romantic Romanesque style of the three R's was beautiful and individual, but did not impress itself upon the country. It did not express the time. Trinity church in Boston is considered Richardson's masterpiece. McKim saw that America was all for sunshine and brightness and clean, practical buildings, which from their utilitarianism must be rather conventional in style, and avoid the silence and shadows of medievalism. H. H. Grant's "Material volume" says that McKim had a dream of a civilization in law and order of cities rich, spacious and he adopted ideas of Florence, Rome and Tuscany as well as of the Louis XIV. time in France to American needs.

McKim came into cooperation with himself all artists whom he thought able to help make the total perfect, but he himself never took a hand in related arts as the famous architects of the past did, who followed out the natural leading from the building itself to its statues and carvings and pictures. It is undoubtedly McKim's ar-

tistic grasp of the values in mural decoration, for example, that makes the staircase of the Boston public library so beautiful, with the golden hue of the marble enclosing the blue skies of Puy's de Chavannes. Perhaps McKim even visualized the blue before samples of the marble were sent to Paris that the painter might tone his canvases to them.

The restoration of the White House in Washington makes this building the greatest object lesson in architecture. It embodies those democratic ideals of simplicity and dignity on which the government was reared. This is what is meant by making the architecture express the ideas of the people. The beautiful Morgan Library is McKim's, the beautiful Harvard and University Clubs in New York, the Pennsylvania station, the municipal building, his work. The tower of the Madison Square Garden is sometimes said to have been copied from the Giraldilla, but Mr. Grant's article is the idea. He gives it as a dozen characteristics to stamp it individually and rates it more beautiful than the famous Moorish tower.

The Kame house, on Fifth avenue and Forty-ninth street in New York, Mr. Granger thinks the most beautiful of the McKim houses.

The Julli Amory Appleton fellowship in architecture at Harvard University, which provides \$1,000 a year for a travelling student, was founded by Mr. McKim in memory of his wife. It is characteristic of him that his own name does not appear in the title of this beneficence.

THINGS THEATRICAL

HIS MAJESTY'S THEATRE. SPECIAL DICKENS ATTRACTIONS MR. TOM TERRISS.

Mr. Tom Terriss, the eminent young English actor, and his company of Charles Dickens' English players, will be seen at His Majesty's all week, under the auspices of The Dickens Fellowship of this city.

In all the Dickens' tales there is no character that stands out more distinctly in the memory of the reader than "Old Scrooge" of "A Christmas Carol." The reclamation of this old sinner is most wonderful piece of word painting, and as an example has doubtless worked as much good in the world as all the sermons ever preached.

Mr. Terriss' production of Dickens' "Christmas Carol" is an adaptation for the stage, and it has remained for Mr. Tom Terriss, a young English actor-author, to arrange a stage presentation of "A Christmas Carol" that is as much a dramatic masterpiece as was the orig-

inal Dickens' tale a monument of literature. This beautiful story will form part of the double bill which Mr. Terriss will present at each performance during this engagement, playing the part of old "Scrooge," and the arrangement of the other plays that will follow this on Tuesday and Thursday nights will be "A Tale of Two Cities," with Mr. Terriss as "Sydney Carton." Monday, Tuesday, Friday and Saturday evenings, "Oliver Twist," Mr. Terriss as "Fagin." Wednesday matinee evening, "The Cricket on the Hearth," Mr. Terriss as "Caleb Plummer." Saturday matinee, "Nicholas Nickleby."

ADVERTISING PAYS.
Does advertising pay? I lost a five-dollar bill on the street."

"Well?"
"I advertised, and so far I have received three five-dollar bills."—Pittsburgh Post.

BOXING AND SWIMMING.

The Boxing Club will hold its usual practice this evening.

Swimming classes take place this afternoon at 4:30 in the Central Y. M. C. A.

"HOB" GILMORE.



He played a consistent game yesterday. His defence work is O.K.

OTHER COLLEGES

Notes and News Gleaned From Exchanges

The Massachusetts Institute of Technology is the first institution in the country to establish a course in the study of the mechanics of air navigation. It appears to have been installed, and the work of instruction will begin at once. The primary purpose of the course is to fit men to design aeroplanes, and it is estimated that a year will be required to turn out proficient designers. It is planned to make the course practical as well as theoretical, and for this purpose special laboratories, air tunnels, etc., in which the students may test their own aeroplanes will be constructed.

Another practice will be held today, and the seniors are expected to be on hand. The tenth leaves Friday night for the scene of Saturday's battle. As the passing and team work has reached a stage where but little more effort will bring it to a fixture. With the forwards working their combination rushes, and the defence playing their usual game, Harvard will have to go to the limit. The crimson players, however, are noted for their well-balanced seven, so McGill should take no chances.

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A GREAT SOLDIER AND A GREAT WRITER

(Continued from Page 2.)

him, a poem which, if published, might place its author in an extremely false position.

The King had asked Voltaire to return it, but through an oversight this had not been done.

When Frederic discovered this, he hastily sent word to his agents that the traveller should be detained at Frankfort until such time as this poem might be forthcoming.

Owing either to a mistake or to the overzealousness of the agents, Voltaire was seized on his arrival, locked up in a low-class inn and treated like a common criminal; his boxes were opened and his belongings ransacked. Worse still, his uncle, who had hastened to Frankfort to meet his uncle, was also seized and grossly insulted by the soldiers.

The poem which was the bone of contention had been sent to another town with the rest of Voltaire's library. Finally it was recovered, but even then Voltaire was not released, and he, recalling Frederic's faithlessness in other affairs, was greatly alarmed.

At last orders were received that the prisoner was to be set at liberty, and Voltaire left Prussia never again to return. He had been imprisoned, his honor had been doubted, and he had suffered many indignities; though treated harshly enough to suffice to send him to correspond politely with the King of Prussia, "the Comedy of Frankfort," as it has been called, always ranked.

The final scene left Frederic enraged with himself, with his agents and with Voltaire. Had not Voltaire been his guest? Had he not come to Prussia only after many entreaties? Had he not worked hard and consistently to perfect the talents of his host and pupil?

It left Voltaire angry and ashamed. Looking back on his life with Frederic he must have noticed his many shortcomings, his aggravating escapades and his carelessness.

Thus was the curtain drawn down on one of the most famous dramas of friendship in the world, which has so well proven the saying,

"The amity which wisdom knits not Folly may easily untie."

JOHN DREW'S SATIRE.

John Drew, the well-known actor, who has recently played in several Canadian cities, is rather noted for the keenness of his satirical wit. His phrases and quips are much quoted among theatrical folk.

It is related that a few years ago when Mr. Drew's clever actress-niece, Ethel Barrymore, was in Great Britain, the story was cabled across to America that she would marry a British actor who was better known as the son of his father than for his own position in the mimic world.

Like any good uncle, Mr. Drew, of course, hastened to cable to Ethel the one word "Congratulations."

"Heaven got this girl."

"Nothing in the story, Ethel."

Whereupon Mr. Drew again cabled the one eloquent word, "Congratulations."

The University of Nebraska has introduced a needed "navigation of the American Republics" course for the convicts of the State penitentiary.

The method to be pursued will be to forbid the pledging or initiation of any new members. In this way the chapters will automatically become extinct within four years.

The University of Nebraska has introduced a needed "navigation of the American Republics" course for the convicts of the State penitentiary.

The courses, which comprise arithmetic, bookkeeping, and agriculture, are elective, and are open to all convicts. Their purpose is to prepare convicts to be self-supporting when they are released.

During the past football season

Carlisle and a few other colleges tried the experiment of numbering their players.

They did the same with Cornell.

Friday night, Harry Fisher, graduate

of athletics in Columbia, num-

bered his basketball players. In both

cases the experiment proved highly sat-

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JOINTS
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VEGETABLES
Green Peas. Sweet Corn. Baked and Mashed Potatoes.

FASTEY
Deep Apple Pie. Lemon Jelly and Cream. Apricot Jam Roll. Sliced Bananas with cream.

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McGill Daily

The Official Organ of the Undergraduate Body of McGill University.

Published every day except Sunday by
THE STUDENTS' COUNCIL

H. C. Beatty, President. C. O. Scott, H. Donald Henry, Managing Editors. F. G. Hughes, B.A., Sporting Editor.

Miss A. C. MacKeen, Editor. R. V. C. Miss Howard, Miss Macdonald, Miss Harvey, Miss Lees

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Editorial (Night), Herald Building, Main 8080 only. Editorial McGill Union Up 446. Advertising Unity Building, Main 3053.

THE BUILDER

The President of the Science Undergraduate Society is to be congratulated in having provided two such entertainments as those of this week.

Last evening's meeting must be numbered among the most interesting yet held by the society. Mr. Harrington speaks from large experience. A few of the firms for which he has worked before entering the present company possess continental reputations. The Elmore Bridge Company, the Carnegie Steel Company, the Keystone Bridge Works are all huge corporations.

Mr. Harrington was assistant chief engineer of the Northwestern Elevated Chicago for a short time. He was in Montreal as chief engineer and the manager of the bridge and structural business of the Locomotive and Machine Company, Montreal. He has designed some notable hoisting machinery and many noteworthy bridges and structures. When the Duke of Connaught was on his trip to the Pacific Coast recently, His Royal Highness opened one of the latest of Waddell and Harrington's big bridges, about a mile long, across False Creek, at Vancouver.

Mr. Harrington has written several pamphlets on his own branch of the profession. That which is known as "The Necessity for Individual Engineering Libraries and for Continuing Study after Graduation," written about five years ago, has been widely quoted. Many of his speeches, also, before societies on the other side of the border have been made into pamphlet form. Extracts from them are frequently met with in speeches made in colleges on both sides of the line, although their authorship is not always acknowledged.

As an engineer of wide reputation himself, a speaker of no mean repute, and as the partner of a firm whose bridges are crossed in almost every state and province on the continent, but also, as the holder of a McGill degree, Mr. Harrington is welcomed to her halls.

McGill Twenty-Four Months Ago

From The McGill Daily of Wednesday, January 30, 1912.

What promises to be the most successful social function in the history of the McGill Union, will take place on Friday evening, the occasion being the annual dance given under the auspices of the Union members. For weeks past the Union Executive and the House Committee have been exerting every possible effort to make this year's function more brilliant than any of its predecessors. The various sub-committees also have been busily engaged in the work of preparation and final arrangements concerning every feature and detail have practically been completed.

On Monday afternoon the Senior squad went through the fastest hour's practice of the whole season to date. The team went at it hammer and tongs and pulled off some first-class hockey, both individual and combination. "Scinch" Scott is improving steadily and fits in at least quite nicely.

Remember the Union Dance on Friday night. First college dance that will not be overcrowded. Be one of the elect and bring her.

Do not stay away from the Union Dance if she cannot come. Get busy; there are others.

FUTURITIES

To-day—Theological debate. Orchestra. Saturday—Strathcona Hall dance. Varsity at Queens.

Assault-at-arms. Saturday—R. V. C. vs. Macdonald (basketball), in Victoria School. Gymnasium. Assault-at-arms.

ART TREASURES OF THE ISLE OF SHEEPY

The sudden disappearance from the Isle of Sheepy of two of the most ancient monuments, Minster Abbey wall and the historic Court Tree, should rouse the Kent Archaeological Society to stern measures, in the opinion of the Daily Chronicle (London). Vandals could hardly manifest itself more ironically; for the enterprising land developers who have removed the tree and the wall some time ago were trumpeting these venerable relics as amongst the "elegant amenities" of the island which Julius Caesar described as being even to the Romans "insula Ovium," to the Saxons, "Sheepy." Sheepy's sheep have stirred writers almost to poetry as in the case of sixteenth century Lambarde, who wrote: "They be now—God be thanked therefore—worthy of great estimation, both for their exceeding fineness of the fleche and fleece (which passeth all other in Europe at this day, and is to bee compared with the amnest delicate wool of Tarentum, or the Golden Fleece of Colchis itself.)"

The number of books recorded as having been published during 1913 is 12,379, an increase of 312 on the total for 1912. There are some differences in the distribution of the year's total over the various classes of literature, we read in the Publishers' Circular. The following classes have increased this year as compared with 1912: Religion, 91; sociology, 216; law, 15; technology, 113; agricultural, etc., 61; business, 32; games, etc., 22; fiction, 40; history, 32; and travel and geography, 14. The principal decreases are: natural science, 95; domestic arts, 64; and juvenile, 137. It should be noted that while the total number of publications has increased by 312, the number of new editions has decreased by 32.

BOOKS IN 1913.

The story is told of a log-roller who, while working on a log drive, fell into the water. He struggled for a while, and at last, dizzy and nearly exhausted, managed to grasp a big log and hold on to it. The current was so strong and swift that it carried his body under the log, until his feet stuck out on the other side. Just as a comrade grasped him by the shoulders he caught sight of his own feet protruding on the other side. "I can hold on a bit longer!" he gasped. "Save the chap that's in here first, if you can."—Weekly Scotsman.

ROUND ABOUT THE COLLEGE

TO WHICH EVERYBODY IS A REPORTER.

At last evening's meeting of the Science Undergraduate Society Hammond Johnson was chosen as the representative of Science to the Law dinner on Saturday night.

Students' Orchestra will hold a practice at 7:30 in Strathcona Hall.

Nearly all dental lectures are called off for this week owing to absence of professors, who are at Buffalo, N.Y., for the Dental Association meeting.

PRESBYTERIAN COLL. GRAD. DIED TUESDAY

Rev. William MacLaren Was Twenty Years in Service of Church

The Reverend John MacLaren, connected with the Presbyterian Church for nearly twenty years, died Tuesday morning at his home, 41 Park Avenue, at the age of 78 years. The funeral service was held last night at nine o'clock at his late residence and was presided over by Rev. Malcolm H. Campbell, of the First Presbyterian Church. On Thursday, the remains will be conveyed to Ottawa by the morning train, and will be buried in the Beechwood Cemetery.

The Rev. McLaren was born in Glasgow, Scotland, and came to this country when he was twenty-eight years of age. He graduated at the Presbyterian College here, and joined the Crescent Street Presbyterian Church where he conducted the choir for about twelve years. For several years he had charge of a church in Plantagenet. Ten years ago he was obliged to retire from his ministry through illness. He leaves a widow, a son, Mr. John MacLaren, business manager of the Edmonton Daily Journal, and three daughters, Mrs. T. R. Wilson, and the Misses N. and J. MacLaren.

QUEEN'S FAVORS BANKING COURSE

Bankers Hope to Find Other Colleges Willing

At a meeting of the Canadian Bankers' Association here the committee appointed to look into the matter of a banking course in Canadian universities reported in favor of such an undertaking, and everyone present supported the motion.

Queens University was the only institution which so far favored the project, consequently the matter was referred back to the same committee for further action. It is felt that something will be done in the direction of securing a practical banking course at more than one Canadian institution.

Mr. H. V. Meredith, having become President of the Bank of Montreal, retired from the executive of the Association, and Sir Frederick Williams Taylor was elected in his stead.



Rev. Dr. Gandier, LL.D., Principal of Knox College, Toronto, will speak at the Hall on Sunday afternoon, February 1, at 3 o'clock.

Dr. Gandier is one of our ablest Canadians, and for years has been foremost among student leaders and educators on this continent.

For the month of February McGill students will have the privilege of hearing three exceptionally strong men, as Dr. Gandier will be followed on February 8 by J. A. Whitmore, of New York, and on February fifteenth by E. T. Colton, of the international Y. M. C. A. Committee.

FIRST RECITAL.

The first recital of the session of the students of McGill Conservatory of Music will be held on Thursday evening in the Conservatorium Hall. Those who will take part include Miss Olga Rondeau, Miss Alma Kulinsk, Master Eddie Katz, Miss Marietta Gauthier, Miss D. Stuart, Miss Hazel Hoffman, Miss Marguerite Reddy, Miss Mary Strout, Miss V. Stuart, Miss Alice Marven, Miss Hope Black, Miss Edith Wilson, Miss Sybil Youngheart and Mr. Henry Casey.

COLUMBIA FACULTY IS AGAINST HONOR SYST.

Strong Opposition—Lack of Individual Responsibility

After having learned the position of the student body in regard to the honor system, by means of a general ballot, the faculty voted to maintain its present attitude at the present time to adopt the proposed substitute for the existing system of examinations. This conclusion has been reached owing to the relatively large number of students who were opposed to the honor system compared with those who voted in its favor. But while this reason is of great importance in not adopting the new system, still of greater weight is the fact that a majority of the students appear, by their votes to be unwilling to take upon themselves the individual responsibility of reporting dishonesty.

MISTAKEN IDENTITY.

A story is told of a log-roller who, while working on a log drive, fell into the water.

He struggled for a while, and at last, dizzy and nearly exhausted, managed to grasp a big log and hold on to it.

The current was so strong and swift

that it carried his body under the log, until his feet stuck out on the other side.

Just as a comrade grasped him by the shoulders he caught sight of his own feet protruding on the other side.

"I can hold on a bit longer!" he gasped. "Save the chap that's in here first, if you can."—Weekly Scotsman.

It is requested that a large number be present at the Rooters' Club practice this afternoon at 1:30 in the Common Room.

There will be no meeting of the Students' Council this evening.

The next meeting of the Science Undergraduate Society will take place in February, when Mr. Dolby, president of the Canadian Foundation co. will speak.

SMALL SURPLUS FROM THE SCIENCE DINNER

For First Time Since Its Establishment, Says Secretary of Committee

For the first time since its inauguration, announced the secretary of the Science Dinner Committee last evening, at the meeting of the Science Undergraduate Society, there was a surplus from the Annual Dinner.

The amount, which has had to be placed aside on account of breading and the loss of silverware, amounts to nil, this year, since both were entirely absent.

There was a little discussion as to whom the credit of the success of the dinner should rest on. The secretary placed the blame on the President, Mr. Keeping. Mr. Keeping responded that the cordial and hearty co-operation of the committee was the essential feature. The audience seemed disposed to agree with both.

METHODS OF BRIDGE BUILDING

Continued from page 1.

centre of the piers. The span is a lift one, and the saving over the cost of a swing bridge is one-third. The movement up in the air of the lift span is about 160 feet, and there is an elevation of 15 feet.

The interesting feature about two of these four bridges is that they can be operated from one house, and one battery. The reason of the tremendous additional expense to have this is the case, is the cost of electricity in Chicago.

"The things that count," said the speaker, "are the cost of operation, the cost of construction, and of maintenance, and what the material in the bridge is." It is all a matter of dollars and cents, after you take care of safety.

There was a Lake Shore Railroad bridge shown. The company did not care for the additional expense, and so paid the cost of balancing the span and the counter-balancing weight, for mean position. When the span is down or up, it is harder to move, until it is half way to the end of its journey.

A freight of design, a Russian bridge, was shown. There were several remarkable and artistic curves in the skeleton work. The bridge has 500 foot spans on either side, balanced with 217 foot spans. The lift is about 140 feet. The girders are of a very heavy type.

Mr. Harrington finally went into a most interesting and exhaustive discussion of the Oregon Railway and Navigation Company Bridge, commonly known as the Willamette Bridge, at Portland. It is a double-decker. The railways run across on the lower deck, while the street railways and the vehicular traffic are carried by the huge upper deck. For steamers and tugs, the railway deck can be lifted almost to the level of the street railway deck. But if a sailing vessel or a high-masted craft goes through, the bridge is raised, and then lowered again when it passes through. The span is 140 feet over high water. This represents a capacity of 5,000 tons. Speed in lifting with safety has been the point aimed at, since the 2,000 cars which cross the river daily, must not be unduly delayed.

There were very many peculiar features about this seventeen hundred thousand dollar bridge which are especially striking. "It was one of the most dangerous things I have been in," said Mr. Harrington. "The piers had to be sunk by the use of concrete-weighted timbers, with good cutting edges. If they had failed to cut through the ground to reach the cement-gravel which it was intended to use as a foundation, the company would have to lower the pier, only the cost of displacing them and sinking new piers to a firm foundation.

One difficulty was the fact that the cement-gravel on one side of one pier was 22 ft. lower than that on the other side of it. They bored holes 2 ft. square, and with about \$35,000 worth of dynamite blew the obstructing gravel out of the way. The wooden piles, with the cutting edges, were sunk. Good dredging valves were used. The Chinese anchor had a pier running pretty well around it, to protect it against pests. The concrete was poured in, and weighted on mud taken. Dynamite was used to break up the ground around the piling. Two hundred thousand dollars was sunk in piers, which might have been no good if the hard gravel had not been found. They were 36 feet wide and twice as long. Happily all went well. "These are the kinds of things engineers don't get paid for," remarked Mr. Harrington.

There are many fool proof contrivances in this big bridge. The upper and lower are usually worked in separate operations. The operator on the bridge cannot work until he gets released by the switchman.

One million pounds can be lifted in 18 seconds in this bridge. Owing to the tremendous weight two ropes are used to a corner, for lifting. The ropes are counterbalanced. The operator telephones to the switchman before giving power to unlock which he does with a separate motor. There is such an arrangement of gears, that one can operate either deck with any one set of gears.

The gas company of Portland telephoned Mr. Harrington if there could be made some arrangement to carry gas mains across the river over the bridge. The reply was, "Yes." These mains, 12 in. diameter, are carried across the stationery piers, and up the uprights on either side, to a certain distance. That leaves a pipe sticking straight up in the air on each side waiting to be connected. The connecting pipe is of larger diameter, and goes up and down with the deck. It is fastened to it, bent, and the ends of the pipe tight in, and inserted into the bent parts, which are not long. Thus it works like the piston in an engine and the gas communication is not interrupted, when the span is open.

Like the other bridge referred to, the spark on this "breaks" when the deck reaches the end of its journey.

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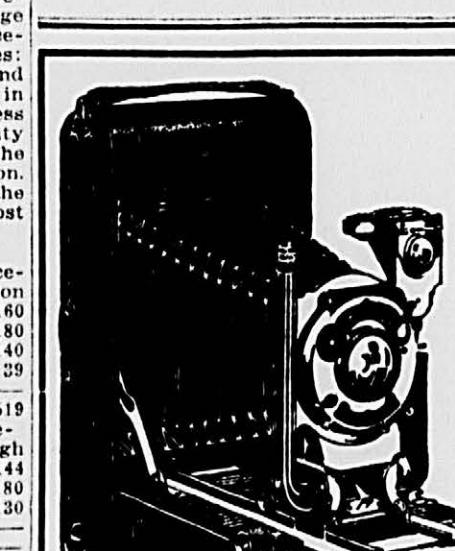
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